



DEPARTMENT OF THE AIR FORCE
WASHINGTON, DC

SFUND RECORDS CTR
98832

Office Of The Assistant Secretary

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SAF/MIQ
1660 Air Force Pentagon
Washington, DC 20330-1660

Mr. Mike Osinski
U.S. EPA, Office of Ground Water and Drinking Water
Mailcode 4607
401 M Street NW
Washington, DC 20460

Dear Mr. Osinski

Attached per EPA's request to DoD is a listing of all known Air Force sites to have used and/or stored ammonium perchlorate (AP). The Army and Navy are currently querying their installations and estimate forwarding their installation listings to me within 30 days. I expect to be sending their information to you by the end of August. If you have any questions, please call me at (703) 614-8458 (sterne@af.pentagon.mil) or Lt Col Dan Rogers, AFMC LO/JAV, (937) 257-7287.

Sincerely

EDMUND H. STERN, LT COL, USAF
Deputy for Environmental Readiness
Deputy Assistant Secretary of the
Air Force
(Environment, Safety, and
Occupational Health)

Air Force Installations Having Used and/or Stored Ammonium Perchlorate

<u>Installation</u>	<u>Estimated Dates</u>	<u>Type of Use</u>
Edwards AFB, CA	1970's	Solid Rocket Motors
Hill AFB, UT	1970's	Rocket Motor Manufacture * Some drums of AP were found and detonated in the early 1990's
Patrick AFB, FL	1950's-present	Solid Rocket Motors * Also rocket motors have been assembled here since the 1960's
USAF Academy, CO	1995	Small quantity used for classroom laboratory
Utah Test and Training Range	1990's	Rocket motor demil at the Thermal Treatment Unit
Vandenberg AFB, CA	1942-1957	Drum disposal site
	1959-present	Solid Rocket Motors

Attachment:
Air Force AP Sites

cc:
ADUSD (CL)
AFMC LO/JAV (Lt Col Rogers)

Attachments:
Army Site List
Navy Site List

cc:
ADUSD (CL)
DASA (ESOH)
DASN (E&S)
AFMC LO/JAV (Lt Col Rogers)

NAVY ACTIVITIES THAT HAVE STORED, HANDLED, OR USED PERCHLORATES

<u>NO.</u>	<u>NAME</u>	<u>STATE</u>
1.	Naval Air Weapons Station, China Lake	CA
2.	Naval Explosive Ordnance Disposal Technology Division	MD
3.	Naval Industrial Reserve Ordnance Plant, Allegany Ballistics Laboratory	WV
4.	Naval Industrial Reserve Ordnance Plant, Magna	UT
5.	Naval Inventory Control Point, Mechanicsburg	PA
6.	Naval Surface Warfare Center, Carderock Division*	MD
7.	Naval Surface Warfare Center, Carderock Division, SSES Philadelphia*	PA
8.	Naval Surface Warfare Center, Crane Division	IN
9.	Naval Surface Warfare Center, Indian Head Division	MD
10.	Naval Weapons Industrial Reserve Plant, McGregor	TX
11.	Naval Weapons Station, Yorktown	VA
12.	Space Warfare Systems Center, San Diego*	CA
13.	Weapons Support Facility, Seal Beach, Concord Detachment*	CA
14.	Weapons Support Facility, Seal Beach, Fallbrook Detachment*	CA
15.	Weapons Support Facility, Seal Beach, Port Hadlock Detachment*	WA

* Small scale laboratory operations

Enclosure (1)

Ammonium Perchlorate Inventory

MACOM: U.S. Army Materiel Command

MSC: U.S. Army Aviation and Missile Command

Installation: Redstone Arsenal, AL

Timeframe: 1941 to present

Purpose: Manufacture of rocket engines, rocket motors and propellant testing.

POC: Mr. Whitt Walker, commercial (205) 955-6967.

MSC: U.S. Army Tank-automotive and Armaments Command

Installation: Picatinny Arsenal

Timeframe: Currently used on an ongoing basis.

Purpose: Research and development.

POC: Mr. Terry Tighe, commercial (810) 574-5262

Evaluation MSC: U. S. Army Test and Command

Installation: White Sands Missile Range

Timeframe: >20 years

Purpose: Test large rockets and motors and small rockets.

POC: Robert Myers, commercial (505) 678-8751

Installation: Aberdeen Proving Ground

Timeframe: >20 years

Purpose: Test Pyrotechnics and small rockets

POC: Ken Stachiw, commercial (410) 436-3320

Installation: Dugway Proving Ground

Timeframe: >20 years

Purpose: Test pyrotechnics

POC: Bill Johnston, commercial (435) 831-3592

Installation: Yuma Proving Ground

Timeframe: >20 years

Purpose: Test pyrotechnics and small rockets

POC: Chuck Botdorf, commercial (52) 328-2754

MSC: U. S. Army Industrial Operations Command

Installation: Longhorn Army Ammunition Plant.

Purpose: Perchlorate has been used in many areas at Longhorn both with the Pershing and base burner.

POC: David Tolbert, DSN 566-2728

Installation: Pine Bluff Arsenal

Purpose: Pine Bluff has used ammonium perchlorate in the production of pyrotechnic smoke mixes. They have also used it in starter mixes for pyrotechnic munitions.

POC: Charlie Neel, commercial 870-540-2804, email: charlie_neel@pba-emh1.army.mil

Installation: Sierra Army Depot

Purpose: Treatment of rocket motors.

POC: Jim Ryan, DSN; 827-4725

Installation: Radford Army Ammunition Plant

Purpose: Ammonium perchlorate is a part of certain propellant formulations at Radford.

POC: Rob Davie, DSN: 931-8641

Installation: Tooele Army Depot

Purpose: Tooele is storing 5 inch projectiles in which ammonium perchlorate is contained in the amount of .005 pounds per projectile. It is in the tracer compound.

Timeframe: Many of these projectiles were detonated in the OB/OD area in 1996 and 1997.

POC: Dave Woodworth, DSN: 790-3504, commercial (435) 833-3504

Installation: McAlester Army Ammunition Plant

Purpose: The installation stores rockets with fuel that contains perchlorate. They use ammonium perchlorate in munitions loading.

POC: Darrell Elliot, DSN: 956-6551

Installation: Hawthorne Army Depot

Purpose: Hawthorne stored 4.5 million pounds of ammonium perchlorate from 1988-1990. In 1995 Hawthorne demilitarized 220 ammonium perchlorate-filled Hawk motors using high-pressure water to washout the material from the motors. Currently Hawthorne receives, stores and ships ammunition items that contain ammonium perchlorate.

POC: Herman Millsap, DSN 830-7317

Installation: Letterkenny Army Depot

Timeframe: Current

Purpose: Demilitarizing Shrike missiles.

POC: Randy Quinn, DSN 570-8438

MACOM: U. S. Army Space and Missile Defense Command

Installation: Kwajalein Atoll

Timeframe: 1970s to present

Purposes: Perchlorate is used in the fuels of rockets that have been fired on Kwajalein Atoll.

POC: Mr. Randy Gallien, (256) 955-5027